



PROVINCE OF MANITOBA

DEPARTMENT OF MINES AND NATURAL RESOURCES

STUART ANDERSON
Deputy Minister

HON. STERLING R. LYON, Q.C.
Minister

MINES BRANCH

J. S. RICHARDS
Director

PUBLICATION 66-1

BIBLIOGRAPHY OF
GEOLOGY, PALAEONTOLOGY, INDUSTRIAL MINERALS,
AND FUELS IN THE POST-CAMBRIAN
REGIONS OF MANITOBA

1958 TO 1965

Compiled by
B. B. BANNATYNE

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PREFACE

This bibliography, containing a list of reports describing various aspects of the geology of Manitoba, exclusive of the Precambrian Shield area, covers the period from 1958 to 1965. It is supplementary to two previous similar reports, Publications 57-4 (1950 to 1957) and 51-2 (to 1950). A few articles omitted from the previous bibliographies are included. Comparable bibliographies of Precambrian geology are available (Publications 57-3, and 51-1).

The bibliography has been divided into three parts. In Part I, major references are indexed according to author in alphabetical order. For each reference, the author date, title of the article, publication, and page numbers are given.

In Part II, the references listed in Part I are indexed according to subject matter. Only the author's name and title of the article are given; for the complete reference, Part I should be consulted.

Part III contains other reports on the post-Cambrian geology of Manitoba not included in Parts I and II. Such articles as annual government reports, abstracts, progress reports, trade journal articles, and other reports which contain brief references to Manitoba geology are listed. These articles are listed under subject headings, by author or publication in alphabetical order; these articles are not included in either Part I or Part II. Special sections in Part III include lists of a new series of stratigraphic maps, articles on the Hudson Bay Lowlands and Hudson Bay area, articles on radiocarbon dates, and Precambrian maps that include marginal areas of Palaeozoic sedimentary rocks.

It is probable that some articles that should have been included in the present bibliography have been omitted. It will be appreciated if such omissions are brought to the attention of the Manitoba Mines Branch.

This bibliography has been prepared by Barry B. Bannatyne with the assistance of Irma Koberstein. Grateful acknowledgement is made of the kind assistance offered by the staff of the Elizabeth Dafoe Library of the University of Manitoba.

LIST OF PUBLICATIONS AND ABBREVIATIONS

- Alta. Soc. Petrol. Geol.; Jour. — Alberta Society of Petroleum Geologists; Journal. Calgary, Alberta.
- Amer. Assoc. Petrol. Geol.; Bull. — American Association of Petroleum Geologists; Bulletin. Tulsa, Oklahoma.
- Amer. Jour. Science — American Journal of Science. New Haven, Connecticut.
- Arctic — Arctic; Journal of the Institute, New York.
- Bedford Institute of Oceanography. Dartmouth, Nova Scotia.
- Billings Geol. Soc. Guidebook, Annual Field Conference — Billings Geological Society. Billings, Montana.
- Bull. Can. Petrol. Geol. — Bulletin of Canadian Petroleum Geology (formerly "Journal of the Alberta Society of Petroleum Geologists"). Calgary, Alberta.
- Canadian Geotechnical Journal. Toronto, Ontario.
- CIMM 6th Commonwealth Min. and Met. Congress — Canadian Institute of Mining and Metallurgy Sixth Commonwealth Mining and Metallurgical Congress. Montreal, Quebec.
- Canadian Journal Agricultural Science. Ottawa, Canada.
- Canadian Jour. Botany — Canadian Journal of Botany. Ottawa, Canada.
- Can. Min. Journ. — Canadian Mining Journal. Gardenvale, Quebec.
- Can. Min. Met. Bull. — The Canadian Mining and Metallurgical Bulletin. Montreal, Quebec.
- Canadian Oil and Gas Industries. Gardenvale, Quebec.
- Canadian Pit and Quarry. Gardenvale, Quebec.
- Clays and Clay Minerals. Permagon Press, New York.
- Dissertation Abstracts. Ann Arbor, Michigan.
- Ecology. Brooklyn, New York.
- Economic Geology. Lancaster, Pennsylvania.
- Geographical Bull. — Geographical Bulletin. Ottawa, Canada.
- Geol. Assoc. Canada — Geological Association of Canada. Toronto, Ontario.
- Geology Club Journal. University of Manitoba, Winnipeg.
- Geol. Mag. — Geological Magazine. Hertford, England.
- Geol. Soc. Amer.; Bull.; Memoir; Special Paper — Geological Society of America; Bulletin; Memoir; Special Paper. New York, New York.
- Geol. Surv. Canada; Bull.; Catalogue; Econ. Geol. Series; Map; Memoir; Misc. Rept.; Paper — Geological Survey of Canada; Bulletin; Catalogue; Economic Geology Series; Map; Memoir; Miscellaneous Report; Paper. Ottawa, Canada.
- Geophysics. Houston, Texas.
- Illinois State Geological Survey; Bulletin. Urbana, Illinois.
- Jour. Can. Ceram. Soc. — Journal of the Canadian Ceramic Society. Burlington, Ontario.
- Jour. Geol. — Journal of Geology. Chicago, Illinois.
- Jour. Hydrology — Journal of Hydrology. Amsterdam, The Netherlands.
- Jour. Paleontology — Journal of Paleontology. Tulsa, Oklahoma.
- Manitoba Dept. of Industry and Commerce; Bulletin. Winnipeg, Manitoba.
- Manitoba Mines Branch Pub. — Manitoba Department of Mines and Natural Resources, Mines Branch, Publication. Winnipeg, Manitoba.
- Manitoba Soil Survey, Soils Report. Available: Manitoba Department of Agriculture and Conservation. Winnipeg, Manitoba.

McGill University, Museums Pub. — McGill University, Museums Publication. Montreal, Quebec.

Mineral Resources Division, Ottawa; Mineral Reports; Mineral Information Bulletin. Ottawa, Canada.

Mines Branch, Canada; Rept.; Investigation Report; Monograph; Information Circular. Ottawa, Canada.

Mining in Canada (formerly "Precambrian"). Winnipeg, Manitoba.

Natl. Museum Canada; Bull. — National Museum of Canada; Bulletin. Ottawa, Ontario.

Natl. Research Council (N.R.C.) Canada; Assoc. Com. on Soil and Snow Mechanics, Tech. Mem. — National Research Council of Canada; Associate Committee on Soil and Snow Mechanics; Technical Memorandum. Ottawa, Canada.

N. Dak. Geol. Soc. — North Dakota Geological Society. Bismarek, North Dakota.

N. Dak. Geol. Surv.; Misc. Series — North Dakota Geological Survey; Miscellaneous Series. Grand Forks, North Dakota.

Oilweek. Calgary, Alberta.

Oil in Canada. Calgary, Alberta.

Ont. Dept. of Mines — Ontario Department of Mines. Toronto, Ontario.

Precambrian. Winnipeg, Manitoba.

Roads and Engineering Construction. Toronto, Ontario.

Roy. Soc. Canada; Trans.; Special Pub. — Royal Society of Canada; Transactions; Special Publications. Ottawa, Canada.

Saskatchewan Dept. of Mineral Resources — Saskatchewan Department of Mineral Resources. Regina, Saskatchewan.

Sask. Geol. Soc.; Rept. — Saskatchewan Geological Society, Report. Regina, Saskatchewan.

Science. Washington, D.C.

The Northern Ohio Geological Society, Inc. Cleveland, Ohio.

21st Internat. Geol. Cong. — Twenty-First International Geological Congress. Copenhagen, Denmark.

Water Control and Conservation Branch, Department of Agriculture and Conservation. Winnipeg, Manitoba.

Western Miner. Vancouver, British Columbia.

World Oil. Houston, Texas.

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PART I

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PART II

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PART III

APPENDIX I. GOVERNMENT REPORTS

1. Annual and Miscellaneous Reports

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(1963): Index of Core and Sample Storage, December, 1962.
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- (1955-1965): Cumulative Schedule of Wells.
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(1958-1965): Schedule of Wells and Crude Oil and Water Production. Statistics, monthly and annually.
Well Locations Map Series (6 maps) and Key List, with weekly well activity supplements.
Crown Owned Oil and Gas Rights available for Disposition in Southwestern, South Central, and Southeastern Manitoba (3 maps).
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(1963): Summary of Research: Field, 1962; compiled by Jenness, S. E.
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50. Wekusko Lake Map-Area; Bell, C. K., p. 39.
51. Hydrogeological Study of the Red River Valley-Winnipeg Area; Charron, J. E., p. 39.
53. Surficial Geology, Riding Mountain Area; Klassen, R. W., p. 41.
54. Marine Geology of the Churchill Estuary and Adjacent Area of Hudson Bay; Leslie, R. J., p. 41.
55. Greater Winnipeg Floodway; Murray, J. E. and Hobson, G. D., p. 42.
56. Groundwater Resistivity Investigations; Wyder, J. E., p. 42.

- (1963): Summary of Activities: Office and Laboratory, 1962; compiled by Jenness, S. E.
Geol. Surv. Canada, Paper 63-2, 76 p.
- 15. Scaphites of the Bearpaw Formation and Equivalent Rocks of Alberta, Saskatchewan, and Manitoba; Jeletzky, J. A. and Cobban, W. A., p. 18.
 - 21. Outliers in the Canadian Shield; Liberty, B.A., p. 10.
 - 22. Microfossils from the Ordovician Red River Formation; Manitoba; McGregor, D. C., p. 11.
 - 64. Ship Magnetometer and Continuous Sub-Bottom profile Reconnaissance of Hudson Bay; Hood, P. J. et al, p. 33.
- (1964): Summary of Activities: Field, 1963; compiled by Jenness, S. E.
Geol. Surv. Canada, Paper 64-1, 92 p.
- 11. Seismic Refraction Survey, Hudson Bay; Hobson, G. D., p. 11.
 - 59. Hydrogeological Study of the Steinbach area; Charron, J. E., p. 42.
 - 60. Surficial Geology, Riding Mountain Map-Area; Klassen, R. W., p. 42.
 - 117. Landslide Studies in Manitoba, Saskatchewan, and Alberta; Scott, J. S., p. 83.
- (1964): Summary of Activities: Office and Laboratory, 1963; compiled by Harker, P.
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- Outliers on the Canadian Shield; Liberty, B. A., p. 12.
 - Hydrogeological Study of the Steinbach area, Manitoba; Charron, J. E., p. 27.
 - Nine Reversed Refraction Seismic Profiles, Hudson Bay Lowlands, Manitoba; Hobson, G. D., pp. 33-40.
 - Cooperative Study of Lead Isotopes in Hudson Bay Bottom Sediments; Stevens, R. D., p. 63.
 - Groundwater Studies in the Assiniboine River Drainage Basin; Meyboom, P., p. 108.
- (1965): Report of Activities: Field, 1964; compiled by Jenness, S. E.
Geol. Surv. Canada, Paper 65-1, 166 p.
- 63. Groundwater Geophysics Surveys, Saskatchewan and Manitoba; Wyder, J. E., p. 92.
 - 65. Hydrogeological Reconnaissance of the Carberry Sand Plains; Carr, P. A., p. 95.
 - 66. Geological and Hydrogeological Study of Wilson Creek Basin; Carr, P. A., p. 95.
 - 67. Hydrogeology, Pine Falls Area; Charron, J. E., p. 96.
 - 68. Field Tests on Low Frequency Resistivity Equipment; Collet, L. S., p. 96.
 - 70. Surficial Geology Studies in Southwestern Manitoba and Southeastern Saskatchewan; Klassen, R. W., p. 98.
 - 71. Geohydrology of the Oak River Drainage Basin, Manitoba; Lissey, A., p. 98.
 - 72. Devonian Biostratigraphy of Lake Manitoba - Lake Winnipegosis area; Norris, A. W., p. 99.

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 - M-1 Mississippian Madison Group: isopach.
 - M-2 Mississippian Erosion Surface: structure contour-
subcrop.
 - M-3 Mississippian: structure contour on Middle Daly
("First Crinoidal") Member, Daly Field area.
 - M-4 Mississippian: structure contour on Upper Virden
("Crinoidal") Member, Virden area (including
Virden-Roselea, North Virden Scallion, Routledge,
West Routledge and Maples fields).
 - DM-1 Devonian-Mississippian, Bakken + Lyleton For-
mations: structure contour, isopach, subcrop.
 - DN-1 Devonian Nisku Formation: structure contour-
isopach-subcrop.
 - DD-1 Devonian Duperow Formation: structure contour-
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 - DD-2 Devonian Duperow Formation: structure contour-
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- DPE-1 Devonian Prairie Evaporite Formation: structure contour-isopach-lithofacies.
- DW-1 Devonian Winnipegosis Formation: structure contour-isopach-subcrop-outerop.
- DA-1 Devonian Ashern Formation: structure contour-isopach-outerop.
- SI-1 Silurian Interlake Group: structure contour-isopach-subcrop-outerop.
- OS-1 Ordovician Stonewall Formation: structure contour-isopach-subcrop-outerop.
- OSM-1 Ordovician Stony Mountain Formation: structure contour-isopach-subcrop-outerop.
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APPENDIX III. PRECAMBRIAN MAPS WITH MARGINAL PALAEOZOIC ROCKS

1. Geological Survey of Canada

MAP. NO.

1726	Athapapuskow Lake.
1801	Reed and Wekusko Lakes.
96A	Wanipigow, Manigotagan, and Oiseau Rivers.
135A	Lower Churchill River.
268A	The Pas.
314A	Amisk Lake.
321A	Elbow-Morton Area.
633A	Schist Lake.
665A	Wekusko.
807A	Athapapuskow Lake.
906A	Tramping Lake.
970A	Kississing.
987A	Crowduck Bay
1006A	Batty Lake.
51-17	Cranberry Portage (East Half).
24-1957	Ledge Lake.
26-1957	Cranberry Portage (West Half).
9-1961	Kettle Rapids.
17-1962	Gods River.

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Pub. 50-2	Manigotagan-Rice River Area.
Pub. 50-10	Lake St. Martin Area.

